

**WEST****End of Result Set**

Generate Collection

L3: Entry 1 of 1

File: USPT

Nov 17, 1998

DOCUMENT-IDENTIFIER: US 5837263 A  
TITLE: Leptospira membrane proteins

## DEPR:

Virulent and culture-attenuated Leptospira kirschneri, strain RM52, (formerly L. alstoni) were received from C. A. Bolin (National Animal Disease Center, Agricultural Research Service, U. S. Department of Agriculture, Ames, Iowa). This strain was originally isolated from material submitted to the Veterinary Diagnostic Laboratory at Iowa State University during an outbreak of swine abortion in 1983 {Thiermann, A. B., et al., Ann. Proc. Amer. Assn. Veterinary Laboratory Diagnosticians, 27:233-244 (1984)}. Samples of the isolate were either stored in liquid nitrogen {Alexander, A. D., et al., International J. System. Bacteriol., 22:165-169 (1972)} or passaged weekly or biweekly in liquid EMJH medium {Johnson, R. C., et al., J. Bacteriol., 94:27-31 (1967)}. The virulent strain had been passaged less than five times. The attenuated strain has been passaged more than 200 times since 1983. Other Leptospira species were kindly supplied by C. A. Bolin.